

Date: Fri, 11 Mar 94 11:01:35 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #277
To: Info-Hams

Info-Hams Digest Fri, 11 Mar 94 Volume 94 : Issue 277

Today's Topics:

* SpaceNews 14-Mar-94 *

1x1 Callsigns? (2 msgs)

[News] Auctioning Rules set up by FCC

Alinco DJ-F1T mod

Best cars for mobile HF/VHF??

copying cw on typewriters

Dayton parking

Definition of CW speeds

Good car for HF/VHF mobile??

Need LA5VK's address

QSL Route, help.

Where can I find "netrom"?

Yaesu 2400H recs

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 11 Mar 94 16:52:54 GMT
From: news-mail-gateway@ucsd.edu
Subject: * SpaceNews 14-Mar-94 *
To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0314
* SpaceNews 14-Mar-94 *

BID: \$SPC0314

=====
SpaceNews
=====

MONDAY MARCH 14, 1994

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

* SPACE CALENDAR *

=====

March 1994

Mar ?? - TC-2C Launch
Mar ?? - Solidaridad II Ariane Launch
Mar 02 - GPS Launch
Mar 05 - 15th Anniversary, Voyager 1 Jupiter flyby
Mar 08 - Galileo, Ida Data Playback, Part 2 (for 3 months)
Mar 14 - Albert Einstein's 115th Birthday
Mar 25 - DSPSE (Clementine) Lunar Mapping Orbit Change
Mar 27 - 25th Anniversary, Mariner 7 Launch (Mars Flyby Mission)
Mar 29 - 20th Anniversary, Mariner 10, 1st Mercury Flyby
Mar 31 - Galaxy 1R Delta 2 Launch
Mar 31 - STS-59, Endeavour, SRL-1

[Info via NASA/JPL]

* OSCAR BANDPASS *

=====

SUNDAY 6:

145898.6 TI5RLI 2129Z A0-13
145889.6 VP2EEE 2119Z A0-13
145906.9 TI5RLI 2003Z A0-13

MONDAY 7:

145896 HL9KT 0541Z A0-13
145885.3 VP2EEE 2043Z A0-13

TUESDAY 8:

145874.0 W3QBK 2037Z *** cross SAT A013/A010
145889.0 VP2EEE 2024Z A0-13 QSL via KK3K

WEDNESDAY 9:

145900.3 TU20J 1837Z A0-13 laut

145889.8 Y03AC 1837Z Andy A0-13
145885.0 VP2EEE 1815Z A0-13
145909.0 8P6SM 1621Z A0-13

[Info via Sergio, IK5AAX]

* UoSAT-OSCAR-11 NEWS *

=====

The following is from the UoSAT-OSCAR-11 satellite control center and is currently being transmitted by the spacecraft on its VHF downlink:

Surrey Satellite Control Centre
University of Surrey
Guildford, Surrey GU2 5XH
England

February 8, 1994

Greetings to all UO-11 users around the world.

As followers of this mission know, during the past several months UO-11 has experienced some problems which have led to a disruption of regular services. Thanks to the efforts of G8N0B and a core of engineers at UoSAT, we can report that the spacecraft has been returned to a reasonable operating state.

We are now going to take this opportunity to make some adjustments to the UO-11 operating schedule. For the past several weeks the spacecraft has been exclusively transmitting binary WOD and telemetry data. This step has been taken to allow us to download the maximum amount of data as possible for diagnostic purposes. This will continue for the foreseeable future. However, we understand that many of the UO-11 tracking stations around the world are only equipped for ASCII data format, therefore we are proposing to set aside two days a week, Wednesday and Saturday, where the primary data format will be ASCII. The spacecraft will transmit ASCII WOD, telemetry and bulletin material during this period in addition to short durations of binary telemetry. In addition, ASCII bulletin material will be included in the daily transmission cycle so that bulletin material may be available daily.

As of 09-Feb-94, the 2.4 GHz beacon aboard UO-11 has been activated. This beacon will be left on whole orbit as long as the power budget permits. We would be interested in reception reports and observations of the 'S' band transmissions from UO-11.

More activities are planned, memory space aboard the spacecraft limits us from going into more detail in this bulletin. Watch this space for more

details. We are interested in your comments, please let us hear from you at the address above.

73, G0SYX for UoSAT

* F0-20 SCHEDULE *

=====

The F0-20 command station announced that F0-20 will be placed in Mode JA (Analog transponder mode) during Field Day 1994 (25-Jun-94 18:00 UTC through 26-Jun-94 18:00 UTC).

The current operating schedule is as follows:

Analog mode:

09-Mar-94 07:05 -to- 16-Mar-94 07:30 UTC
23-Mar-94 07:52 -to- 30-Mar-94 08:15 UTC

Digital mode: Unless otherwise noted above.

[Info via Kazu Sakamoto, JJ1WTK]

* AWARD NOMINATIONS SOUGHT *

=====

The Westlink Report ham radio newsletter indicates that the nominating period for its annual Young Ham of the Year Award closes on Saturday April 30th.

The Westlink Report Young Ham of the Year award was conceived back in 1986 to honor the younger members of the Amateur Radio Community.

This is not a prize drawing or lottery! There is no filing fee or any other charge to submit a nomination. However, the sponsors of this young peoples award have set very strict criteria for who may even be nominated. A nominee must be age 18 or younger, must hold a valid United States Amateur Radio license issued by the FCC and he/she must have, in the eyes of the judges, made a significant contribution to the nation, to his/her community, to the Amateur Service (or any combination there-of) through the use of Amateur Radio. All nominating packages must include detailed information on and proof of any claim made for the person being proposed to receive the award.

By way of example (and exaggeration) -- nominating a 5 year old Extra Class ham whose only achievement has been attaining his/her Extra class license by age 5 would only prove that wrote memorization is possible in a young child and nothing more. Such a nomination would be rejected by the judges. Let that same 5 year old Extra run an Emergency Net for 72 hours following a

7.7 earthquake and you have a situation where the judges would give careful consideration.

With corporate underwriting from Yaesu USA Corporation, the 1994 winner will receive a trip to the Sea Pac convention in Seaside Oregon (June 4-5), a piece of ham radio equipment and a special plaque denoting his or her accomplishments to the Amateur Radio service.

All nominations must be submitted on an official application available for a Self Addressed Stamped Envelope to the Westlink Report Young Ham of the Year, 28197 Robin Avenue Saugus California 91350. (Application requests not accompanied by an SASE will be discarded.)

The name and call sign of the individual selected as the 1994 Westlink Report Young Ham of the Year for 1994 will be announced in early May.

For further information please contact Burt Hicks WB6MQV at (805) 251-5558 or Bill Pasternak WA6ITF at (805) 296-7180

[Info via Bill Pasternak, WA6ITF]

* FEEDBACK/INPUT WELCOMED *

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

FAX : 1-908-747-7107
PACKET : KD2BD @ N2KZH.NJ.USA.NA
INTERNET : kd2bd@ka2qhd.ocpt.ccur.com -or- kd2bd@amsat.org

MAIL : John A. Magliacane, KD2BD
Department of Engineering and Technology
Advanced Technology Center
Brookdale Community College
Lincroft, New Jersey 07738
U.S.A.

<<-- SpaceNews: The first amateur newsletter read in space! -->>

/EX

--

John A. Magliacane, KD2BD * /*\ * Voice : 1-908-224-2948
Advanced Technology Center |/\|/\|/| Packet : KD2BD @ N2KZH.NJ.USA.NA
Brookdale Community College |/\|/\|/| Internet: kd2bd@ka2qhd.ocpt.ccur.com
Lincroft, NJ 07738 * /*\ * Morse : -.----- -... -..

Date: 11 Mar 1994 15:35:17 GMT
From: ihnp4.ucsd.edu!usc!yeshua.marcam.com!charnel!olivea!news.bbn.com!news!
levin@network.ucsd.edu
Subject: 1x1 Callsigns?
To: info-hams@ucsd.edu

In article <2lo1ii\$g94@oak.oakland.edu> prvalko@vela.acs.oakland.edu (prvalko)
writes:

Path: news.bbn.com!seismo!lll-winken.llnl.gov!overload.lbl.gov!dog.ee.lbl.gov!
ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!news.msfc.nasa.gov!
sol.ctr.columbia.edu!newsxfer.itd.umich.edu!news1.oakland.edu!
vela.acs.oakland.edu!prvalko

They should allow for ANY combination of legitimate US-amateur allocated
calls. If I remember correctly, In the US, the call must BEGIN with "A,
K, N, or W" then have a SINGLE DIGIT NUMBER and followed by at LEAST one
letter.

No 1x1s with A are allowed: US only has AA through AL. AM - AZ
and A0 - A9 belong to other countries.

SO... W8A, would be OK.

I already sent in a request for MY choice, NNN6N.

The IARU or ITU rules require at most two letters before the single
digit. (Or one letter and one digit, for such prefixes as P4.) So
this is not a valid request.

/JBL KD10N
=
Nets: levin@bbn.com | "GO TO JAIL. Go directly to jail. Do not pass
POTS: (617)873-3463 | Go. Do not collect \$200."
KD10N (@KB4N.NH.USA) | -- Parker Brothers

Date: 11 Mar 1994 14:37:31 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!news.ans.net!
malgudi.oar.net!news.yzu.edu!yfn.yzu.edu!as779@network.ucsd.edu
Subject: 1x1 Callsigns?
To: info-hams@ucsd.edu

A glance at the ITU Callsign prefix allocations will show that
the United States is assigned "A" prefixes in the range AA through

AL, so a A1A call is not permitted under current International agreements. The W,K and N series can be used as single letter prefixes because the US is allocated WAA-WZZ,KAA-KZZ,NAA-NZZ.
Chuck Reti WV8A Detroit,MI

Date: 11 Mar 1994 15:31:08 GMT
From: ihnp4.ucsd.edu!usc!yeshua.marcam.com!charnel!olivea!news.bbn.com!news!
levin@network.ucsd.edu
Subject: [News] Auctioning Rules set up by FCC
To: info-hams@ucsd.edu

In article <CMGsJ6.EqB@news.Hawaii.Edu> jherman@uhunix3.uhcc.Hawaii.Edu (Jeffrey Herman) writes:

While we're on the subject, until recently I had an older FT-101 xcvr - it was an early 70's model - analog tuning and solid state except for PA tubes in the final. The band switch included an 11 meter position. This 11m slot has always perplexed me, since the amateur service lost 11m back in the 50's; why would a 70's era rig still carry 11m?

On the FT-101EE (a slightly later model) that band was RX only. Same for the 30 meter band, which I assumed was there so one could receive the 10MHz time standard.

/JBL KD1ON
=

Nets: levin@bbn.com | "A religion that must depend upon the state to do
pots: (617)873-3463 | what it cannot do is not worthy of existence."
KD1ON (@KB4N.NH.USA) | -- Robert H. Meneilly

Date: 11 Mar 94 07:25:12 GMT
From: news-mail-gateway@ucsd.edu
Subject: Alinco DJ-F1T mod
To: info-hams@ucsd.edu

Modifying Alinco DJ-F1T: Open the unit by removing battery pack, then the three recessed screws in metal back, and the recessed screw on side below the Xmit button. With unit face down, Xmit button to the right, hold the battery release button so that metal back will come out as you lift the right edge of the metal back. Open as if it were hinged on the left. It is NOT hinged here, in fact there are two delicate ribbon cables you must be careful not to damage.

With the unit open, you will see two wire jumpers, one red, one blue. Cutting the RED wire enables air band receive. Cutting the BLUE wire enables extended transmit. I suggest you don't cut the blue wire unless you have good reason to.

Put the unit back together, and RESET it by holding in the function button while you turn it on. This will erase everything stored in channel memory, but is necessary for the processor to re-read the jumpers. The extended functions are now available.

The "B" button now toggles AM/FM receive. In AM mode, your frequency range is extended to include the Air band.

-- Gary KD1TE gthorbur@ub.com -or- compuserve 76500,746.

Date: Fri, 11 Mar 1994 15:14:37 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!apollo.hp.com!hpwin052!hpqmoea!
dstock@network.ucsd.edu
Subject: Best cars for mobile HF/VHF??
To: info-hams@ucsd.edu

I'm happy with my choice, a Diesel powered Range-Rover derivative called a "Discovery"

Give serious thought to Diesels, no ignition, no computers

David GM4ZNX

Date: 11 Mar 1994 09:01:55 -0800
From: ihnp4.ucsd.edu!agate!apple.com!apple.com!not-for-mail@network.ucsd.edu
Subject: copying cw on typewriters
To: info-hams@ucsd.edu

ez006683@chip.ucdavis.edu (Daniel D. Todd) writes:

>Derek Wills (oo7@astro.as.utexas.edu) wrote:

>: Because when you are shipwrecked and have built your CW radio transmitter
>: out of coconuts and paper clips, you won't be able to decode any messages
>: received in response to your distress call. You have to know whether
>: someone is saying "Ship will be there in 2 days", "pse QSY have been on
>: this freq for last 10 hrs", or "599 TX qsl via buro, QRZ?"

>Perhaps we should just lobby the FCC to change the law so that any
>amateurs who pass the code elements with a keyboard be required to be
>able to homebrew a typewriter to get their license.

>ps. If the professor was a Ham "Gilligan's Island" would have lasted only
>three episodes. (unless he was a no-code :-)

But, *our* perfesser *is* a Ham, and professes to know his code, no
less.

However, I think Prof. Dr. Derek is confusing varieties of home-brews.
The young shoots of the coconut palm make mighty fine "home-brew," but
of the spirits kind, that is. Folks in the South Indian and Malayan
Peninsulas call it Toddy.

A few chugs of that home-brew later, the sea gulls on your deserted
island will all appear to be saying "CQ dah-dit-dididit-dah" to you!

Kok "CQD" Chen, AA6TY kchen@apple.com
Apple Computer, Inc.

Date: 11 Mar 1994 17:56:36 GMT
From: meadata!ruthy@uunet.uu.net
Subject: Dayton parking
To: info-hams@ucsd.edu

In article <2ke42t\$144@transfer.stratus.com>, fms@sw.stratus.com (Faith Senie)
writes:

|>
|> Last year at Dayton, we were staying at the Radisson (with the rest of the
|> RTTY types!). After an afternoon of wandering around the show, I had myself
|> a craving for a bit of orange juice. I'd have ordered from room service, but
|> I wasn't about to pay that kind of money for simple OJ. I checked at the
|> gas station right there at the Radisson -- no luck. I asked at the front desk
|> if there was some place I could go. They suggested a mall down the street.
|> Having no car, I asked them if the mall was within walking distance. Their
answer
|> was to strongly suggest that I NOT walk along the road, no matter how far I
|> was going, because the road was DANGEROUS. Of course, I DID end up walking
along
|> the road -- across the street and down to the convenience store a half-block
down.
|> No death or dismemberment, but it wasn't a good time, either (no sidewalk

```
except
|> across the I-75 bridge, rushing traffic, etc.)...
|>
|> I'm personally hoping that the Radisson is going to be running shuttles to the
|> show, because I don't relish sitting in the traffic jam (which happened last
|> year, even with loaded busses) for an hour or more in a Standard-Shift vehicle,
|> and it's WAAAAAY too far from the Radisson to walk, even if the road wasn't
|> 'DANGEROUS', as the folks at the Radisson claim.
```

Of course, Faith, dangerous here in Dayton, Ohio may be a little different than some other folk's view of dangerous. Downtown Dayton is pretty highly patrolled, just don't cross over 75 to the west (that tends to be a high crime area for us). I thought shuttles ran from one of the downtown hotels (Stouffers maybe?). Perhaps another Daytonian subscriber knows more, but I'll try to find out for you.

Until then, I'm looking forward to showing "y'all" some Dayton hospitality!

```
|>
|> 73 de Faith "It's HOW far???" N1JIT
|> --
|> Faith M. Senie           InterNet: fms@vos.stratus.com
|> Stratus Computer, Inc.  InterNet: fms@hoop.sw.stratus.com
|> 55 Fairbanks Blvd.      Pkt Radio: n1jit@wa1phy.ma.usa.na
|> Marlboro, MA 01752       Phone: (508)460-2632
```

Ruthann Weaver Todd
ruthy@meadata.com
Mead Data Central
Miamisburg, Ohio
|>
|> Curiosity doesn't flourish among the burned-out...

Date: 11 Mar 94 17:18:02 GMT
From: news-mail-gateway@ucsd.edu
Subject: Definition of CW speeds
To: info-hams@ucsd.edu

Text item: Text_1

Subject: Definition of CW speeds

>You've make quite a leap in going from PARIS to 50 units! What
>asumptions did you make about dash per dot ratio? And how many
>dots per space? 73, Ned Hamilton, AB6FI.

Hi Ned,

All this is spelled out in detail in the Morse Code section of the ARRL Handbook. PARIS is exactly 50 units! The assumptions are also spelled out in detail there. What might help the original poster is:

ten WPM is 120 mS per unit... 12 WPM is 100 mS per unit... etc.

73, KG7BK, Cecil_A_Moore@ccm.hf.intel.com
(I do not speak for Intel on Internet)

Date: Fri, 11 Mar 1994 16:01:35 GMT

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!
howland.reston.ans.net!cs.utexas.edu!convex!news.utdallas.edu!feenix.metronet.com!
serafin@network.ucsd.edu
Subject: Good car for HF/VHF mobile??
To: info-hams@ucsd.edu

In article <2lpmsf\$8do@brahms.udel.edu>,
Robert Penneys <penneys@brahms.udel.edu> wrote:
>I need to get another car and want one which will be radio-friendly for 100
>watts or so of HF, mostly CW, and 50 or so of 2 meters and 440.

Shees, and people complain about the cellphones stuck to peoples ears
while in traffic. :-)

>
>Criteria are:
>No interference to electronics of car by RF
>Minimal noise generated by car
>Reasonable space for rigs
>Reasonable mounting of antennas
>
>Car will probably be four door sedan in size range from Corolla to Taurus.

How about a Suburban with a Diesel engine? Only interfering electronics
you should have to worry about is the alternator. And it has tons of
space for antennas.

Date: 11 Mar 1994 16:48:54 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!pipex!sunic!trane.uninett.no!
nac.no!nntp-oslo.uninett.no!mac_inge!tomrune@network.ucsd.edu
Subject: Need LA5VK's address
To: info-hams@ucsd.edu

Hello!

My father and I are going to Svalbard Isl.

March 18 until March 21.

I want to know if my father is in the newest call-book.

Or if I am there.

The reason why I ask is that LA5VK will be the manager for the "dx'pedition", and I want to know if he is in the newest call-book.

By the way, we will be operating all bands, including WARC, mostly on SSB.

This is probably one of the first times JW is activated on SSB on the new WARC bands.

The WARC bands was opened for SSB for Norwegian amateurs January 1 1994.

Please help me, I must have the answer before Friday...

de

We will be using this call signs:

JW1BJA TOM (that's me, homecall LA1BJA)

JW5VK INGE (my father, homecall LA5VK)

vy 73 de Tom, LA1BJA

Date: Fri, 11 Mar 1994 12:22:00 GMT
From: ax!sec21!gerson.rissin@uunet.uu.net
Subject: QSL Route, help.
To: info-hams@ucsd.edu

From: sec21!grissin@ax.apc.org (Gerson Rissin)
Newsgroups: rec.radio.amateur.misc
Subject: QSL ROUTE - HELP
Date: Mon, 11 Mar 1994 13:12:09 GMT

Hi,

I need help with QSL route for the following:

TM0P, FQ2M, GS3IDS, RN7WPX, XR1X, CV5A, 9A7A, L03A, L3D, V26N, US7I, L40A, GX0FOS, LY5A, IB4M and CH1YX.

TKS.

73, Gerson Rissin

```
##### Super Tag #####
#          #
#      [] Gerson Rissin - Rio de Janeiro, RJ. - BRASIL      #
#          #
```

Date: Fri, 11 Mar 1994 17:39:41 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!csus.edu!netcom.com!
dgf@network.ucsd.edu
Subject: Where can I find "netrom"?
To: info-hams@ucsd.edu

A friend of mine (nq9i) wants to connect his PC though his TNC to a TCP/IP-based frequency using his PK-232. What software does he need in his PC? What firmware would he need in his PK-232 (it has firmware about 4 years old)?

Sorry if this is a FAQ...

Thanx!

73 Dave WB0GAZ dgf@netcom.com

Date: 11 Mar 94 09:43:02 PDT
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!nic-nac.CSU.net!clstcs!
armyman@network.ucsd.edu
Subject: Yaesu 2400H recs
To: info-hams@ucsd.edu

In article <Bg6soU0.wcarty@delphi.com>, wcarty@delphi.com writes:
> best radio i have ever purchased! It goes with me from the house, to the car to
> the house, to the red cross truck to red cross national assignments back to the
> house. It's been dropped once or twice and doesn't seem to mind it.

Totally agree. I to use it in the house and in the field, which includes disaster communications, (Here in Los Angeles we've had alot of that lately!) and off road racing. It's had a lot of dust and vibration with out a single problem.

What I need is a quick release kind of mobile bracket similar to the MMB-37 bracket sold for the FT-5100. That would make moving it from house to car to truck to box etc etc much nicer. Anybody got somethin' like that?

> It is also if memory serves me right, the only ham rig that is built to
> military specs.

Only MIL-STD 810C mechanical spec which is for shock and vibration using
methods 514.2/VII and 516.2/I. Supposedly the sister radio FT-7400H is the
440 MHz version of the same.

I would a very expensive radio to be completely built to MIL-STD
But it's the only one I know of that is built to those standards.

Trying to decide between a FT-7400H or a FT-5100.

Alex R. Myrman - KC6TMB - LA Co DCS W-03 - armyrman@vms4.sci.csupomona.edu
College of Science Computational Systems - (909) 869-4226
California State Polytechnic University, Pomona, CA. USA

Date: Fri, 11 Mar 1994 13:21:52 GMT
From: world!drt@uunet.uu.net
To: info-hams@ucsd.edu

References <CMD7Gw.2wo@usenet.ucs.indiana.edu>, <CMDD89.1pH@world.std.com>,
<CMEG3M.GJ9@murdoch.acc.Virginia.EDU>
Subject : Re: Definition of CW speeds

Carole L. Hamilton (clh6w@faraday.clas.Virginia.EDU) wrote:
: In article <CMDD89.1pH@world.std.com>,
: David R Tucker <drt@world.std.com> wrote:
: >Laurence Gene Battin (battin@cyclops.iucf.indiana.edu) wrote:
: >: I am writing a code-practice program for my Amiga computer, and
: >: I wonder if anyone can give me a definitive answer to exactly
: >: how many milliseconds long a dit at 18 wpm is supposed to be?
: >
: Then David R. Tucker wrote:
: >You're right. There is a more exact standard.
: >
: >The average English text word length is 50 units, which is the same as
: >the word "PARIS", and that's considered the "standard" word length.
: ...
: You've make quite a leap in going from PARIS to 50 units! What
: assumptions did you make about dash per dot ratio? And how many
: dots per space?

Well, I assumed he understood this from another source, since he

didn't ask that question, and could look it up in the source I gave.
Still:

```
dit = 1 unit
dah = 3
intracharacter space = 1 unit
space between characters = 3 units
space between words = 7 units
```

(BTW, a fast way to figure out the number of units in a text is to count all the dits, dahs, characters, and words. Then

```
Length = 2*(dits+chars) + 4*(dahs+words)
```

The proof of this is left as an exercise, but it works.
PARIS : 10 dits, 5 letters, 4 dahs, 1 word = 50 units. Or, you can count all the units up.)

: Also some code is sent Farnsworth (sp?) where the characters are sent at one (faster) speed while the spaces between words are spread out.

Between characters and between words. I assume you keep the word space:character space ratio at 7:3, extending the duration of word spaces and character spaces so that when you combine everything, PARIS comes out at the speed you desire, despite faster characters. This, the formula I gave before, and a bit of algebra should give a formula for char and word spaces for any overall speed and character speed specified. Then it's plug & chug.

: Your final conclusions are approximately correct but you need to account for the above spacings.

"Approximately"??? 66.66666666666... ms for a dit length at 18 wpm is approximate?? Boy, you're a tough one! :-> (Maybe, "correct as far as it goes"?)

: By the way to the original poster: the best to write a program that sends code is to start with the dot length. Then make all the other ratios a function of that dot length. (e.g. dash-dot ratio, space length in units of dots, and character speed versus word speed). Then adjust the ratios until you get a pleasant sounding "fist."

: 73, Ned Hamilton, AB6FI.

You could also allow the user to vary those ratios to taste, as an

option.

Sorry if it wasn't clear. Happy ... coding!!! :-) (groan ...)

-drt

|David R. Tucker KG2S drt@world.std.com |

End of Info-Hams Digest V94 #277
